

Assignment 2 18p-0126

```
[mysql]> create user 'p180126'@'localhost' identified by 'ahmad@123';
Query OK, 0 rows affected (0.04 sec)

[mysql]> grant select,insert,update,delete on bank.* to 'p180126'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> █
```

```
(base) hasanaskary@Ahmads-Mac ~ % mysql -u p180126 -p;
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 27
Server version: 8.0.23 MySQL Community Server - GPL

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases
    -> ;
+-----+
| Database      |
+-----+
| bank          |
| information_schema |
+-----+
2 rows in set (0.01 sec)

mysql> use bank;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
```

```
Database changed
mysql> insert into department (dept_id,name)
   -> values(56,'operation');
Query OK, 1 row affected (0.00 sec)

mysql> insert into department (dept_id,name)
   -> values(57,'opertation');
Query OK, 1 row affected (0.00 sec)

mysql> insert into department (dept_id,name)  values(58,'opertation');
Query OK, 1 row affected (0.00 sec)

mysql>
```

```
mysql> select * from department;
+-----+-----+
| DEPT_ID | NAME      |
+-----+-----+
|      1 | Operations |
|      2 | Loans       |
|      3 | Administration |
|      4 | IT          |
|    56 | operation  |
|    57 | opertation |
|    58 | opertation |
+-----+-----+
7 rows in set (0.00 sec)

mysql>
```

```
mysql> update department set name="non-operation" where dept_id = 56;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update department set name="cs" where dept_id = 57;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update department set name="ee" where dept_id = 58;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> █
```

```
[mysql]> select * from department;
+-----+-----+
| DEPT_ID | NAME          |
+-----+-----+
|      1 | Operations    |
|      2 | Loans          |
|      3 | Administration |
|      4 | IT             |
|     56 | non-operation |
|     57 | cs            |
|     58 | ee            |
+-----+-----+
7 rows in set (0.00 sec)

mysql> █
```

```
mysql> delete from department where dept_id=56;
Query OK, 1 row affected (0.01 sec)

mysql> delete from department where dept_id=57;
Query OK, 1 row affected (0.00 sec)

mysql> delete from department where dept_id=58;;
Query OK, 1 row affected (0.01 sec)
```

ERROR:

No query specified

```
mysql> select * from department;
+-----+-----+
| DEPT_ID | NAME      |
+-----+-----+
|      1 | Operations |
|      2 | Loans      |
|      3 | Administration |
|      4 | IT          |
+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',12);
Query OK, 1 row affected (0.00 sec)

mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',15);
ERROR 1216 (23000): Cannot add or update a child row: a foreign key constraint fails
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',13);
Query OK, 1 row affected (0.00 sec)

mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',14);
ERROR 1216 (23000): Cannot add or update a child row: a foreign key constraint fails
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',14);
ERROR 1216 (23000): Cannot add or update a child row: a foreign key constraint fails
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',10);
Query OK, 1 row affected (0.00 sec)

mysql>
```

```
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',12);
Query OK, 1 row affected (0.00 sec)

mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',15);
ERROR 1216 (23000): Cannot add or update a child row: a foreign key constraint fails
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',13);
Query OK, 1 row affected (0.00 sec)

mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',14);
ERROR 1216 (23000): Cannot add or update a child row: a foreign key constraint fails
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',14);
ERROR 1216 (23000): Cannot add or update a child row: a foreign key constraint fails
mysql> insert into individual (birth_date,first_name,last_name,cust_id) values ('1995-03-12','Rashid','khan',10);
Query OK, 1 row affected (0.00 sec)

mysql>
```

```
mysql> update individual set first_name="fahad",last_name="arif" where cust_id=10;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update individual set first_name="ahmad",last_name="asif" where cust_id=11;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql> update individual set first_name="rohboam",last_name="amin" where cust_id=12;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from individual;
+-----+-----+-----+-----+
| BIRTH_DATE | FIRST_NAME | LAST_NAME | CUST_ID |
+-----+-----+-----+-----+
| 1972-04-22 | James      | Hadley    | 1        |
| 1968-08-15 | Susan      | Tingley   | 2        |
| 1958-02-06 | Frank      | Tucker    | 3        |
| 1966-12-22 | John       | Hayward   | 4        |
| 1971-08-25 | Charles    | Frasier   | 5        |
| 1962-09-14 | John       | Spencer   | 6        |
| 1947-03-19 | Margaret  | Young     | 7        |
| 1977-07-01 | Louis      | Blake     | 8        |
| 1968-06-16 | Richard    | Farley   | 9        |
| 1995-03-12 | fahad     | arif     | 10       |
| 1995-03-12 | rohboam   | amin     | 12       |
| 1995-03-12 | Rashid    | khan     | 13       |
+-----+-----+-----+-----+
12 rows in set (0.01 sec)

mysql>
```

```
mysql> delete from individual where cust_id=10;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> delete from individual where cust_id=11;;
Query OK, 0 rows affected (0.00 sec)
```

ERROR:
No query specified

```
mysql> delete from individual where cust_id=12;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from individual;
+-----+-----+-----+-----+
| BIRTH_DATE | FIRST_NAME | LAST_NAME | CUST_ID |
+-----+-----+-----+-----+
| 1972-04-22 | James      | Hadley    | 1        |
| 1968-08-15 | Susan      | Tingley   | 2        |
| 1958-02-06 | Frank      | Tucker    | 3        |
| 1966-12-22 | John       | Hayward   | 4        |
| 1971-08-25 | Charles    | Frasier   | 5        |
| 1962-09-14 | John       | Spencer   | 6        |
| 1947-03-19 | Margaret  | Young     | 7        |
| 1977-07-01 | Louis      | Blake     | 8        |
| 1968-06-16 | Richard    | Farley   | 9        |
| 1995-03-12 | Rashid    | khan     | 13       |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> █
```

```

mysql> delete from individual where cust_id=10;
Query OK, 1 row affected (0.00 sec)

mysql> delete from individual where cust_id=11;;
Query OK, 0 rows affected (0.00 sec)

ERROR:
No query specified

mysql> delete from individual where cust_id=12;
Query OK, 1 row affected (0.00 sec)

mysql> select * from individual;
+-----+-----+-----+-----+
| BIRTH_DATE | FIRST_NAME | LAST_NAME | CUST_ID |
+-----+-----+-----+-----+
| 1972-04-22 | James      | Hadley    | 1        |
| 1968-08-15 | Susan      | Tingley   | 2        |
| 1958-02-06 | Frank      | Tucker    | 3        |
| 1966-12-22 | John       | Hayward   | 4        |
| 1971-08-25 | Charles    | Frasier   | 5        |
| 1962-09-14 | John       | Spencer   | 6        |
| 1947-03-19 | Margaret  | Young     | 7        |
| 1977-07-01 | Louis      | Blake     | 8        |
| 1968-06-16 | Richard    | Farley   | 9        |
| 1995-03-12 | Rashid    | khan     | 13       |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> 
```

```

mysql> insert into business (incorp_date,name,state_id,cust_id) values ('2001-01-21',"mrvel",'21-333-567',3);
Query OK, 1 row affected (0.00 sec)

mysql> insert into business (incorp_date,name,state_id,cust_id) values ('2001-01-21',"spider",'29-884-889',4);
Query OK, 1 row affected (0.00 sec)

mysql> insert into business (incorp_date,name,state_id,cust_id) values ('2001-01-21',"ball",'29-884-889',5);
Query OK, 1 row affected (0.00 sec)

mysql> select * from business;
+-----+-----+-----+-----+
| INCORP_DATE | NAME      | STATE_ID | CUST_ID |
+-----+-----+-----+-----+
| 2001-01-21 | mrvel    | 21-333-567 | 3        |
| 2001-01-21 | spider   | 29-884-889 | 4        |
| 2001-01-21 | ball     | 29-884-889 | 5        |
| 1995-05-01 | Chilton Engineering | 12-345-678 | 10       |
| 2001-01-01 | Northeast Cooling Inc. | 23-456-789 | 11       |
| 2002-06-30 | Superior Auto Body | 34-567-890 | 12       |
| 1999-05-01 | AAA Insurance Inc. | 45-678-901 | 13       |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> 
```

```
[mysql]> delete from business where cust_id=3;
Query OK, 1 row affected (0.00 sec)
```

```
[mysql]> delete from business where cust_id=4;
Query OK, 1 row affected (0.00 sec)
```

```
[mysql]> delete from business where cust_id=5;
Query OK, 1 row affected (0.00 sec)
```

```
[mysql]> select * from business;
```

INCORP_DATE	NAME	STATE_ID	CUST_ID
1995-05-01	Chilton Engineering	12-345-678	10
2001-01-01	Northeast Cooling Inc.	23-456-789	11
2002-06-30	Superior Auto Body	34-567-890	12
1999-05-01	AAA Insurance Inc.	45-678-901	13

4 rows in set (0.00 sec)

```
mysql>
```

```
[mysql]> insert into branch (branch_id,address,city,name,state,zip_code)
[   -> values(5,'newyork','newyork','head','na','09876');
Query OK, 1 row affected (0.01 sec)
```

```
[mysql]> insert into branch (branch_id,address,city,name,state,zip_code) values(6,'cleveland','newyork','head','na','09476');
Query OK, 1 row affected (0.00 sec)
```

```
[mysql]> insert into branch (branch_id,address,city,name,state,zip_code) values(7,'veland','york','he','na','09456');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> update branch set name="UK" where branch_id=5;
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update branch set_name="qwert" where branch_id=6;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the syntax to use near '='"qwert"' where branch_id=6' at line 1
```

```
mysql> update branch set name="qwert" where branch_id=6;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update branch set name="asdf" where branch_id=7;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from branch;
```

BRANCH_ID	ADDRESS	CITY	NAME	STATE	ZIP_CODE
1	3882 Main St.	Waltham	Headquarters	MA	02451
2	422 Maple St.	Woburn	Woburn Branch	MA	01801
3	125 Presidential Way	Quincy	Quincy Branch	MA	02169
4	378 Maynard Ln.	Salem	So. NH Branch	NH	03079
5	newyork	newyork	UK	na	09876
6	cleveland	newyork	qwert	na	09476
7	veland	york	asdf	na	09456

```
7 rows in set (0.00 sec)
```

```
mysql> ■
```

```

mysql> delete from branch where branch_id=5;
Query OK, 1 row affected (0.01 sec)

mysql> delete from branch where branch_id=6;;
Query OK, 1 row affected (0.00 sec)

ERROR:
No query specified

mysql> delete from branch where branch_id=7;
Query OK, 1 row affected (0.00 sec)

mysql> select * from branch;
+-----+-----+-----+-----+-----+
| BRANCH_ID | ADDRESS           | CITY    | NAME      | STATE   | ZIP_CODE |
+-----+-----+-----+-----+-----+
| 1       | 3882 Main St.        | Waltham | Headquarters | MA     | 02451   |
| 2       | 422 Maple St.         | Woburn  | Woburn Branch | MA     | 01801   |
| 3       | 125 Presidential Way | Quincy  | Quincy Branch | MA     | 02169   |
| 4       | 378 Maynard Ln.       | Salem   | So. NH Branch | NH     | 03079   |
+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> █

```

```

mysql> insert into product_type (product_type_cd,name)
-> values('zxc',"employees acc");
Query OK, 1 row affected (0.00 sec)

mysql> insert into product_type (product_type_cd,name) values('test',"employees acc");
Query OK, 1 row affected (0.00 sec)

mysql> insert into product_type (product_type_cd,name) values('point',"employees acc");
Query OK, 1 row affected (0.00 sec)

mysql> select * from businesss;
ERROR 1146 (42S02): Table 'bank.businesss' doesn't exist
mysql> select * from business;
+-----+-----+-----+-----+
| INCORP_DATE | NAME          | STATE_ID | CUST_ID |
+-----+-----+-----+-----+
| 2001-01-21  | wood          | 21-333-567 | 3       |
| 2001-01-21  | material       | 29-884-889 | 4       |
| 2001-01-21  | book          | 29-884-889 | 5       |
| 1995-05-01  | Chilton Engineering | 12-345-678 | 10      |
| 2001-01-01  | Northeast Cooling Inc. | 23-456-789 | 11      |
| 2002-06-30  | Superior Auto Body | 34-567-890 | 12      |
| 1999-05-01  | AAA Insurance Inc. | 45-678-901 | 13      |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> █

```

```

mysql> update product_type set name="offcial acc" where product_type_cd="zxc";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update product_type set name="new acc" where product_type_cd="point";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update product_type set name="acc" where product_type_cd="test";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from product_type;
+-----+-----+
| PRODUCT_TYPE_CD | NAME          |
+-----+-----+
| ACCOUNT        | Customer Accounts |
| INSURANCE      | Insurance Offerings |
| LOAN           | Individual and Business Loans |
| point          | new acc          |
| test           | acc              |
| zxc            | offcial acc      |
+-----+-----+
6 rows in set (0.00 sec)

mysql> █

```



```
[mysql]> select * from product_type;
+-----+-----+
| PRODUCT_TYPE_CD | NAME
+-----+-----+
| ACCOUNT         | Customer Accounts
| INSURANCE       | Insurance Offerings
| LOAN            | Individual and Business Loans
| point           | employees acc
| test            | employees acc
| zxc             | employees acc
+-----+-----+
6 rows in set (0.00 sec)
```

```
[mysql]> delete from product_type where product_type_cd="zxc";
Query OK, 1 row affected (0.00 sec)

[mysql]> delete from product_type where product_type_cd="point";
Query OK, 1 row affected (0.00 sec)

[mysql]> delete from product_type where product_type_cd="test";
Query OK, 1 row affected (0.00 sec)

[mysql]> select * from product_type;
+-----+-----+
| PRODUCT_TYPE_CD | NAME
+-----+-----+
| ACCOUNT         | Customer Accounts
| INSURANCE       | Insurance Offerings
| LOAN            | Individual and Business Loans
+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

```
[mysql> create user "officers"@"localhost" identified by "ahmad123";
Query OK, 0 rows affected (0.01 sec)
```

```
[mysql> grant insert,update on bank.product to 'officers'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

```
(base) hasanaskary@Ahmads-Mac ~ % mysql -u officers -p;
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 31
Server version: 8.0.23 MySQL Community Server - GPL

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database      |
+-----+
| bank          |
| information_schema |
+-----+
2 rows in set (0.00 sec)

mysql> use bank;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_bank |
+-----+
| PRODUCT        |
+-----+
1 row in set (0.01 sec)
```

```
697 •
698 •     DROP VIEW customer_info;
699 •
700 •     Create VIEW customer_info AS SELECT CUST_ID,FIRST_NAME, LAST_NAME, BIRTH_DATE,ADDRESS,CITY,CUST_TYPE_CD,FED_ID,POSTAL_CODE,STATE from CUSTOMER
701 •     INNER JOIN INDIVIDUAL USING(CUST_ID) WHERE CUST_ID < 10;
702 •
703 •     SELECT *FROM CUSTOMER_INFO;
```

100% 20:701 1 error found

Result Grid Filter Rows: Search Export:

CUSTOMER_INFO 15

Action Output

```
704 • CREATE VIEW individual_info AS SELECT FIRST_NAME, LAST_NAME, BIRTH_DATE, coalesce(AVAIL_BALANCE,0) AS Total_Balance FROM INDIVIDUAL i LEFT JOIN ACCOUNT a  
705   ON a.CUST_ID = i.cust_id;  
706 • select * from individual_info;
```

108 100% 27:706 1 error found

Result Grid Filter Rows: Search Export:

FIRST_NAME	LAST_NAME	BIRTH_DATE	Total_Balance
James	Hadley	1972-04-22	1057.75
James	Hadley	1972-04-22	500
James	Hadley	1972-04-22	3000
Susan	Tingley	1968-08-15	2258.02
Susan	Tingley	1968-08-15	200
Frank	Tucker	1958-02-06	1057.75
Frank	Tucker	1958-02-06	2212.5
John	Hayward	1966-12-22	534.12
John	Hayward	1966-12-22	767.77
John	Hayward	1966-12-22	5487.09
Charles	Frasier	1971-08-25	2237.97
John	Spencer	1962-05-14	123.37
John	Spencer	1962-09-14	10000
Margaret	Young	1947-03-19	5000
Louis	Blake	1977-07-01	3487.19
Louis	Blake	1977-07-01	387.99
Richard	Farley	1968-06-16	125.67
Richard	Farley	1968-06-16	9345.55
Richard	Farley	1968-06-16	1500

individual_info 16



